

[Previous](#)[Next](#)[DOT](#)[Contents](#)[About](#)

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[<Previous](#)[Next >](#)[DOT](#)[Search](#)[Contents](#)[Link to this page](#)[About](#)

A	B	C
D	E	F
G	H	I
J	K	L
M	N	O
P	Q	R
S	T	U
V	W	X
Y	Z	?

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TITLE: Plastic Molding and Casting Machine Operators and Tenders

DEFINITION: Operate or tend plastic molding machines, such as compression or injection molding machines, to mold, form, or cast thermoplastic materials to specified shape.

[TASKS](#)[KNOWLEDGE](#)[SKILLS](#)[ABILITIES](#)[WORK ACTIVITIES](#)[WORK CONTEXT](#)[INTERESTS](#)[WORK VALUES](#)[CROSSWALKS](#)**TASKS:**

1. Starts machine that automatically liquefies plastic material in heating chamber, injects liquefied material into mold, and ejects molded product.
2. Turns valves and dials of machines to regulate pressure and temperature, to set press-cycle time, and to close press.
3. Observes meters and gauges to verify specified temperatures, pressures, and press-cycle times.
4. Observes continuous operation of automatic machine and width and alignment of plastic sheeting to ensure side flanges.
5. Dumps plastic powder, preformed plastic pellets, or preformed rubber slugs into hopper of molding machine.
6. Pulls level and toggle latches to fill mold and regulate tension on sheeting and to release mold covers.
7. Mixes and pours liquid plastic into rotating drum of machine that spreads, hardens, and shapes mixture.
8. Fills tubs, molds, or cavities of machine with plastic material in solid or liquid form prior to activating machine.
9. Examines molded product for surface defects, such as dents, bubbles, thin areas, and cracks.
10. Positions mold frame to correct alignment and tubs containing mixture on top of mold to facilitate loading of molds.
11. Removes product from mold or conveyor, and cleans and reloads mold.
12. Weighs prescribed amounts of material for molded part and finished product to ensure specifications are maintained.
13. Heats plastic material prior to forming product or cools product after processing to prevent distortion.
14. Breaks seals that hold plastic product in molds, using hand tool, and removes product from mold.
15. Feels stiffness and consistency of molded sheeting to detect machinery malfunction.
16. Stacks molded parts in boxes or on conveyor for subsequent processing or leaves parts in mold to cool.
17. Reports defect in molds to supervisor.
18. Throws flash and rejected parts into grinder machine to be recycled.

19. Signals coworker to synchronize feed of materials into molding process.

20. Trims flashing from product.

**KNOWLEDGE:**

Knowledge elements are ranked by *importance*.

80 Production and Processing

Knowledge of inputs, outputs, raw materials, waste, quality control, costs, and techniques for maximizing the manufacture and distribution of goods

80 Mechanical

Knowledge of machines and tools, including their designs, uses, benefits, repair, and maintenance

35 Mathematics

Knowledge of numbers, their operations, and interrelationships including arithmetic, algebra, geometry, calculus, statistics, and their applications

30 Engineering and Technology

Knowledge of equipment, tools, mechanical devices, and their uses to produce motion, light, power, technology, and other applications

30 Physics

Knowledge and prediction of physical principles, laws, and applications including air, water, material dynamics, light, atomic principles, heat, electric theory, earth formations, and meteorological and related natural phenomena

30 English Language

Knowledge of the structure and content of the English language including the meaning and spelling of words, rules of composition, and grammar

20 Chemistry

Knowledge of the composition, structure, and properties of substances and of the chemical processes and transformations that they undergo. This includes uses of chemicals and their interactions, danger signs, production techniques, and disposal methods

15 Communications and Media

Knowledge of media production, communication, and dissemination techniques and methods including alternative ways to inform and entertain via written, oral, and visual media

15 Customer and Personal Service

Knowledge of principles and processes for providing customer and personal services including needs assessment techniques, quality service standards, alternative delivery systems, and customer satisfaction evaluation techniques

10 Psychology

Knowledge of human behavior and performance, mental processes, psychological research methods, and the assessment and treatment of behavioral and affective disorders

10 Public Safety and Security

Knowledge of weaponry, public safety, and security operations, rules, regulations, precautions, prevention, and the protection of people, data, and property

5 Building and Construction

Knowledge of materials, methods, and the appropriate tools to construct objects, structures, and buildings

5 Sociology and Anthropology

Knowledge of group behavior and dynamics, societal trends and influences, cultures, their history, migrations, ethnicity, and origins

5 Transportation

Knowledge of principles and methods for moving people or goods by air, rail, sea, or road, including their relative costs, advantages, and limitations

5 Personnel and Human Resources

Knowledge of policies and practices involved in personnel/human resource functions. This includes recruitment, selection, training, and promotion regulations and procedures; compensation and benefits packages; labor relations and negotiation strategies; and personnel information systems

5 Law, Government and Jurisprudence

Knowledge of laws, legal codes, court procedures, precedents, government regulations, executive orders, agency rules, and the democratic political process

5 Computers and Electronics

Knowledge of electric circuit boards, processors, chips, and computer hardware and software, including applications and programming

**SKILLS:**

Skills elements are ranked by *importance*.

## 80 Operation and Control

Controlling operations of equipment or systems

## 75 Product Inspection

Inspecting and evaluating the quality of products

## 70 Operation Monitoring

Watching gauges, dials, or other indicators to make sure a machine is working properly

## 60 Problem Identification

Identifying the nature of problems

## 55 Mathematics

Using mathematics to solve problems

## 45 Information Gathering

Knowing how to find information and identifying essential information

## 45 Equipment Selection

Determining the kind of tools and equipment needed to do a job

## 45 Testing

Conducting tests to determine whether equipment, software, or procedures are operating as expected

## 35 Identifying Downstream Consequences

Determining the long-term outcomes of a change in operations

## 35 Active Listening

Listening to what other people are saying and asking questions as appropriate

## 35 Reading Comprehension

Understanding written sentences and paragraphs in work related documents

## 30 Science

Using scientific methods to solve problems

## 30 Monitoring

Assessing how well one is doing when learning or doing something

## 30 Coordination

Adjusting actions in relation to others' actions

## 30 Information Organization

Finding ways to structure or classify multiple pieces of information

## 30 Judgment and Decision Making

Weighing the relative costs and benefits of a potential action

## 30 Systems Perception

Determining when important changes have occurred in a system or are likely to occur

## 25 Speaking

Talking to others to effectively convey information

## 25 Identification of Key Causes

Identifying the things that must be changed to achieve a goal

## 25 Troubleshooting

Determining what is causing an operating error and deciding what to do about it

## 25 Critical Thinking

Using logic and analysis to identify the strengths and weaknesses of different approaches

## 25 Visioning

Developing an image of how a system should work under ideal conditions

**25 Systems Evaluation**

Looking at many indicators of system performance, taking into account their accuracy

**25 Equipment Maintenance**

Performing routine maintenance and determining when and what kind of maintenance is needed

**25 Management of Material Resources**

Obtaining and seeing to the appropriate use of equipment, facilities, and materials needed to do certain work

**25 Solution Appraisal**

Observing and evaluating the outcomes of a problem solution to identify lessons learned or redirect efforts

**20 Operations Analysis**

Analyzing needs and product requirements to create a design

**20 Technology Design**

Generating or adapting equipment and technology to serve user needs

**20 Time Management**

Managing one's own time and the time of others

**20 Idea Evaluation**

Evaluating the likely success of an idea in relation to the demands of the situation

**20 Installation**

Installing equipment, machines, wiring, or programs to meet specifications

**15 Writing**

Communicating effectively with others in writing as indicated by the needs of the audience

**15 Synthesis/Reorganization**

Reorganizing information to get a better approach to problems or tasks

**15 Repairing**

Repairing machines or systems using the needed tools

**15 Active Learning**

Working with new material or information to grasp its implications

**15 Implementation Planning**

Developing approaches for implementing an idea

**10 Instructing**

Teaching others how to do something

**10 Learning Strategies**

Using multiple approaches when learning or teaching new things

**10 Idea Generation**

Generating a number of different approaches to problems

**5 Negotiation**

Bringing others together and trying to reconcile differences

**5 Persuasion**

Persuading others to approach things differently .

**ABILITIES:**

Abilities elements are ranked by *importance*.

**75 Control Precision**

The ability to quickly and repeatedly make precise adjustments in moving the controls of a machine or vehicle to exact positions

**75 Manual Dexterity**

The ability to quickly make coordinated movements of one hand, a hand together with its arm, or two hands to grasp, manipulate, or assemble objects

**70 Problem Sensitivity**

The ability to tell when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing there is a problem.

**60 Information Ordering**

The ability to correctly follow a given rule or set of rules in order to arrange things or actions in a certain order. The things or actions can include numbers, letters, words, pictures, procedures, sentences, and mathematical or logical operations.

#### 60 Perceptual Speed

The ability to quickly and accurately compare letters, numbers, objects, pictures, or patterns. The things to be compared may be presented at the same time or one after the other. This ability also includes comparing a presented object with a remembered object

#### 60 Rate Control

The ability to time the adjustments of a movement or equipment control in anticipation of changes in the speed and/or direction of a continuously moving object or scene

#### 60 Reaction Time

The ability to quickly respond (with the hand, finger, or foot) to one signal (sound, light, picture, etc.) when it appears

#### 60 Near Vision

The ability to see details of objects at a close range (within a few feet of the observer)

#### 55 Arm-Hand Steadiness

The ability to keep the hand and arm steady while making an arm movement or while holding the arm and hand in one position

#### 55 Static Strength

The ability to exert maximum muscle force to lift, push, pull, or carry objects

#### 55 Trunk Strength

The ability to use one's abdominal and lower back muscles to support part of the body repeatedly or continuously over time without "giving out" or fatiguing

#### 50 Extent Flexibility

The ability to bend, stretch, twist, or reach out with the body, arms, and/or legs

#### 45 Finger Dexterity

The ability to make precisely coordinated movements of the fingers of one or both hands to grasp, manipulate, or assemble very small objects

#### 45 Multilimb Coordination

The ability to coordinate movements of two or more limbs together (for example, two arms, two legs, or one leg and one arm) while sitting, standing, or lying down. It does not involve performing the activities while the body is in motion

#### 45 Dynamic Strength

The ability to exert muscle force repeatedly or continuously over time. This involves muscular endurance and resistance to muscle fatigue

#### 40 Dynamic Flexibility

The ability to quickly and repeatedly bend, stretch, twist, or reach out with the body, arms, and/or legs

#### 40 Gross Body Coordination

The ability to coordinate the movement of the arms, legs, and torso together in activities where the whole body is in motion

#### 40 Response Orientation

The ability to choose quickly and correctly between two or more movements in response to two or more signals (lights, sounds, pictures, etc.). It includes the speed with which the correct response is started with the hand, foot, or other body parts

#### 40 Explosive Strength

The ability to use short bursts of muscle force to propel oneself (as in jumping or sprinting), or to throw an object

#### 40 Speed of Limb Movement

The ability to quickly move the arms or legs

#### 35 Wrist-Finger Speed

The ability to make fast, simple, repeated movements of the fingers, hands, and wrists

#### 35 Memorization

The ability to remember information such as words, numbers, pictures, and procedures

#### 35 Category Flexibility

The ability to produce many rules so that each rule tells how to group (or combine) a set of things in a different way.

#### 35 Time Sharing

The ability to efficiently shift back and forth between two or more activities or sources of information (such as speech, sounds, touch, or other sources)

**35 Visual Color Discrimination**

The ability to match or detect differences between colors, including shades of color and brightness

**35 Oral Expression**

The ability to communicate information and ideas in speaking so others will understand

**35 Stamina**

The ability to exert one's self physically over long periods of time without getting winded or out of breath

**30 Selective Attention**

The ability to concentrate and not be distracted while performing a task over a period of time

**30 Number Facility**

The ability to add, subtract, multiply, or divide quickly and correctly

**30 Written Comprehension**

The ability to read and understand information and ideas presented in writing

**30 Visualization**

The ability to imagine how something will look after it is moved around or when its parts are moved or rearranged

**30 Deductive Reasoning**

The ability to apply general rules to specific problems to come up with logical answers. It involves deciding if an answer makes sense.

**30 Spatial Orientation**

The ability to know one's location in relation to the environment, or to know where other objects are in relation to one's self

**25 Inductive Reasoning**

The ability to combine separate pieces of information, or specific answers to problems, to form general rules or conclusions. It includes coming up with a logical explanation for why a series of seemingly unrelated events occur together.

**25 Far Vision**

The ability to see details at a distance

**25 Depth Perception**

The ability to judge which of several objects is closer or farther away from the observer, or to judge the distance between an object and the observer

**25 Flexibility of Closure**

The ability to identify or detect a known pattern (a figure, object, word, or sound) that is hidden in other distracting material

**25 Oral Comprehension**

The ability to listen to and understand information and ideas presented through spoken words and sentences

**25 Peripheral Vision**

The ability to see objects or movement of objects to one's side when the eyes are focused forward

**25 Hearing Sensitivity**

The ability to detect or tell the difference between sounds that vary over broad ranges of pitch and loudness

**20 Speech Clarity**

The ability to speak clearly so that it is understandable to a listener

**20 Speed of Closure**

The ability to quickly make sense of information that seems to be without meaning or organization. It involves quickly combining and organizing different pieces of information into a meaningful pattern

**20 Auditory Attention**

The ability to focus on a single source of auditory (hearing) information in the presence of other distracting sounds

**15 Mathematical Reasoning**

The ability to understand and organize a problem and then to select a mathematical method or formula to solve the problem

**15 Speech Recognition**

The ability to identify and understand the speech of another person

**15 Gross Body Equilibrium**

The ability to keep or regain one's body balance or stay upright when in an unstable position

**15 Sound Localization**

The ability to tell the direction from which a sound originated

**10 Originality**

The ability to come up with unusual or clever ideas about a given topic or situation, or to develop creative ways to solve a problem

**10 Fluency of Ideas**

The ability to come up with a number of ideas about a given topic. It concerns the number of ideas produced and not the quality, correctness, or creativity of the ideas.

**10 Written Expression**

The ability to communicate information and ideas in writing so others will understand

**10 Glare Sensitivity**

The ability to see objects in the presence of glare or bright lighting

**WORK ACTIVITIES:**

Work activities elements are ranked by *importance*.

**95 Handling and Moving Objects**

Using one's own hands and arms in handling, installing, forming, positioning, and moving materials, or in manipulating things, including the use of keyboards.

**95 Controlling Machines and Processes**

Using either control mechanisms or direct physical activity to operate machines or processes (not including computers or vehicles).

**85 Monitor Processes, Material, or Surroundings**

Monitoring and reviewing information from materials, events, or the environment, often to detect problems or to find out when things are finished.

**70 Performing General Physical Activities**

Performing physical activities that require moving one's whole body, such as in climbing, lifting, balancing, walking, stooping, where the activities often also require considerable use of the arms and legs, such as in the physical handling of materials.

**55 Inspecting Equipment, Structures, or Material**

Inspecting or diagnosing equipment, structures, or materials to identify the causes of errors or other problems or defects.

**50 Implementing Ideas or Programs**

Conducting or carrying out work procedures and activities in accord with one's own ideas or information provided through directions/instructions for purposes of installing, modifying, preparing, delivering, constructing, integrating, finishing, or completing programs, systems, structures, or products.

**45 Judging Qualities of Things, Services, or People**

Making judgments about or assessing the value, importance, or quality of things or people.

**45 Evaluating Information Against Standards**

Evaluating information against a set of standards and verifying that it is correct.

**45 Communicating With Other Workers**

Providing information to supervisors, fellow workers, and subordinates. This information can be exchanged face-to-face, in writing, or via telephone/electronic transfer.

**45 Getting Information Needed to Do the Job**

Observing, receiving, and otherwise obtaining information from all relevant sources.

**40 Identifying Objects, Actions, and Events**

Identifying information received by making estimates or categorizations, recognizing differences or similarities, or sensing changes in circumstances or events.

**35 Estimating Needed Characteristics**

Estimating the Characteristics of Materials, Products, Events, or Information: Estimating sizes, distances, and quantities, or determining time, costs, resources, or materials needed to perform a work activity.

**30 Making Decisions and Solving Problems**

Combining, evaluating, and reasoning with information and data to make decisions and solve problems. These processes involve making decisions about the relative importance of information and choosing the best solution.

**25 Updating and Using Job-Relevant Knowledge**

Keeping up-to-date technically and knowing one's own jobs' and related jobs' functions.

**20 Processing Information**

Compiling, coding, categorizing, calculating, tabulating, auditing, verifying, or processing information or data.

**20 Organizing, Planning, and Prioritizing**

Developing plans to accomplish work, and prioritizing and organizing one's own work.

**20 Analyzing Data or Information**

Identifying underlying principles, reasons, or facts by breaking down information or data into separate parts.

**15 Repairing and Maintaining Mechanical Equipment**

Fixing, servicing, aligning, setting up, adjusting, and testing machines, devices, moving parts, and equipment that operate primarily on the basis of mechanical (not electronic) principles.

**10 Assisting and Caring for Others**

Providing assistance or personal care to others.

**10 Repairing and Maintaining Electrical Equipment**

Fixing, servicing, adjusting, regulating, calibrating, fine-tuning, or testing machines, devices, and equipment that operate primarily on the basis of electrical or electronic (not mechanical) principles.

**10 Documenting or Recording Information**

Entering, transcribing, recording, storing, or maintaining information in either written form or by electronic/magnetic recording.

**10 Scheduling Work and Activities**

Scheduling events, programs, activities, as well as the work of others.

**10 Establishing and Maintaining Relationships**

Developing constructive and cooperative working relationships with others.

**10 Coordinating Work and Activities of Others**

Coordinating members of a work group to accomplish tasks.

**5 Thinking Creatively**

Originating, inventing, designing, or creating new applications, ideas, relationships, systems, or products, including artistic contributions.

**5 Developing and Building Teams**

Encouraging and building mutual trust, respect, and cooperation among team members.

**5 Drafting and Specifying Technical Devices**

Providing documentation, detailed instructions, drawings, or specifications to inform others about how devices, parts, equipment, or structures are to be fabricated, constructed, assembled, modified, maintained, or used.

**5 Monitoring and Controlling Resources**

Monitoring and controlling resources and overseeing the spending of money.

**5 Interpreting Meaning of Information to Others**

Translating or explaining what information means and how it can be understood or used to support responses or feedback to others.

**5 Performing Administrative Activities**

Approving requests, handling paperwork, and performing day-to-day administrative tasks.

**5 Interacting With Computers**

Controlling computer functions by using programs, setting up functions, writing software, or otherwise communicating with computer systems.

**WORK CONTEXT:**

Work context elements are ranked by *frequency (F)*, *importance (I)*, *responsibility (R)*, *amount of contact (C)*, *how serious (S)*, *objective vs. subjective (O)*, *automation (A)*, *extent of frustration (E)*, *responsible for health and safety (H)*, *likelihood of injury (L)*, *degree of injury (D)* .

**100 (F) Indoors**

How frequently does this job require the worker to work: Indoors

**90 (F) Using Hands on Objects, Tools, Controls**

How much time in a usual work period does the worker spend: Using hands to handle, control, or feel objects, tools or controls?

**85 (F) Standing**

How much time in a usual work period does the worker spend: Standing?

**72 (I) Pace Determined by Speed of Equipment**

How important is it to this job that the pace is determined by the speed of equipment or machinery? (This does not refer to keeping busy at all times on this job.)

**70 (F) Hazardous Equipment**

How often does this job require the worker to be exposed to hazardous equipment? Hazardous Equipment (e.g., saws, machinery/mechanical parts include exposure to vehicular traffic, but not driving a vehicle)

**70 (A) Degree of Automation**

Indicate the level of automation of this job.

**64 (I) Importance of Being Sure All Is Done**

How important is it to be sure that all the details of this job are performed and everything is done completely?

**60 (I) Importance of Being Exact or Accurate**

How important is being very exact or highly accurate in performing this job?

**60 (F) Sounds or Noise Levels Are Distracting**

How often during a usual work period is the worker exposed to the following conditions: Sounds and noise levels that are distracting and uncomfortable?

**55 (F) Common Protective or Safety Attire**

How often does the worker wear: Common protective or safety attire, such as safety shoes, glasses, gloves, hearing protection, hard-hat, or personal flotation device?

**50 (F) Contaminants**

How often during a usual work period is the worker exposed to the following conditions: Contaminants (pollutants, gases, dust, odors, etc.)?

**50 (F) Making Repetitive Motions**

How much time in a usual work period does the worker spend: Making repetitive motions?

**50 (F) Bending or Twisting the Body**

How much time in a usual work period does the worker spend: Bending or twisting the body?

**48 (I) Importance of Being Aware of New Events**

How important is being constantly aware of either frequently changing events (e.g. security guard watching for shoplifters) or infrequent events (e.g. radar operator watching for tornadoes) to performing this job?

**46 (L) Hazardous Equipment**

What is the likelihood that the worker would be injured as a result of being exposed to hazardous equipment while performing this job? Hazardous Equipment (e.g., saws, machinery/mechanical parts include exposure to vehicular traffic, but not driving a vehicle)

**45 (F) Hazardous Conditions**

How often does this job require the worker to be exposed to hazardous conditions? Hazardous Conditions (e.g., high voltage electricity, combustibles, explosives, chemicals; do not include hazardous equipment or situations)

**45 (F) Hazardous Situations**

How often does this job require the worker to be exposed to hazardous situations? Hazardous Situations involving likely cuts, bites, stings, or minor burns

**44 (I) Importance of Repeating Same Tasks**

How important is repeating the same physical activities (e.g., key entry) or mental activities (e.g., checking entries in a ledger) over and over, without stopping, to performing this job?

**40 (D) Hazardous Equipment**

If injury, due to exposure to hazardous equipment, were to occur while performing this job, how serious would be the likely outcome? Hazardous Equipment (e.g., saws, machinery/mechanical parts include exposure to vehicular traffic, but not driving a vehicle)

**40 (F) Walking or Running**

How much time in a usual work period does the worker spend: Walking or running?

**37 (E) Frustrating Circumstances**

To what extent do frustrating circumstances ("road blocks" to work that are beyond the worker's control) hinder the accomplishment of this job?

**35 (F) Kneeling, Crouching or Crawling**

How much time in a usual work period does the worker spend: Kneeling, stooping, crouching or crawling?

**35 (F) Sitting**

How much time in a usual work period does the worker spend: Sitting?

**31 (L) Hazardous Situations**

What is the likelihood that the worker would be injured as a result of being exposed to hazardous situations while performing this job? Hazardous Situations involving likely cuts, bites, stings, or minor burns

30 (F) Very Hot

How often during a usual work period is the worker exposed to the following conditions: Very hot (above 90 F) or very cold (under 32 F) temperatures?

30 (S) Consequence of Error

How serious would the result usually be if the worker made a mistake that was not readily correctable?

29 (H) Responsible for Health and Safety of Others

How responsible is the worker for others' health and safety on this job?

29 (L) Hazardous Conditions

What is the likelihood that the worker would be injured as a result of being exposed to hazardous conditions while performing this job? Hazardous Conditions (e.g., high voltage electricity, combustibles, explosives, chemicals; do not include hazardous equipment or situations)

24 (D) Hazardous Situations

If injury, due to exposure to hazardous situations, were to occur while performing this job, how serious would be the likely outcome? Hazardous Situations involving likely cuts, bites, stings, or minor burns

20 (F) Extremely Bright or Inadequate Lighting

How often during a usual work period is the worker exposed to the following conditions: Extremely bright or inadequate lighting conditions?

20 (C) Job-Required Social Interaction

How much does this job require the worker to be in contact (face-to-face, by telephone, or otherwise) with others in order to perform it?

20 (I) Coordinate or Lead Others

How important are interactions requiring the worker to: Coordinate or lead others in accomplishing work activities (not supervision)?

20 (D) Hazardous Conditions

If injury, due to exposure to hazardous conditions, were to occur while performing this job, how serious would be the likely outcome? Hazardous Conditions (e.g., high voltage electricity, combustibles, explosives, chemicals; do not include hazardous equipment or situations)

15 (F) Specialized Protective or Safety Attire

How often does the worker wear: Specialized protective or safety attire, such as breathing apparatus, safety harness, full protection suit, or radiation protection?

15 (F) Frequency in Conflict Situations

How frequently do the job requirements place the worker in conflict situations?

15 (F) Deal With Unpleasant or Angry People

How frequently does the worker have to deal with unpleasant, angry, or discourteous individuals as part of the job requirements?

15 (F) Climbing Ladders, Scaffolds, Poles, etc.

How much time in a usual work period does the worker spend: Climbing ladders, scaffolds, poles, etc?

15 (F) Cramped Work Space, Awkward Positions

How often during a usual work period is the worker exposed to the following conditions: Cramped work space that requires getting into awkward positions?

15 (F) Whole Body Vibration

How often during a usual work period is the worker exposed to the following conditions: Whole body vibration (e.g., operating a jackhammer or earthmoving equipment)?

15 (F) Keeping or Regaining Balance

How much time in a usual work period does the worker spend: Keeping or regaining balance?

14 (R) Responsibility for Outcomes and Results

How responsible is the worker for work outcomes and results of other workers?

12 (I) Supervise, Coach, Train Others

How important are interactions requiring the worker to: Supervise, coach, train, or develop other employees?

12 (I) Persuade Someone to a Course of Action

How important are interactions requiring the worker to: Persuade someone to a course of action (informally) or influence others to buy something (to sell)?

**12 (I) Provide a Service to Others**

How important are interactions requiring the worker to: Provide a service to others (e.g., customers)?

**12 (I) Take a Position Opposed to Others**

How important are interactions requiring the worker to: Take a position opposed to coworkers or others?

**10 (F) High Places**

How often does this job require the worker to be exposed to high places? High Places (e.g., heights above 8 feet on ladders, poles, scaffolding, catwalks, etc.)

**7 (O) Objective or Subjective Information**

How objective or subjective is the information communicated in this job?

**5 (F) Deal With Physically Aggressive People**

How frequently does this job require the worker to deal with physical aggression of violent individuals?

**5 (F) Special Uniform**

How often does the worker wear: A special uniform, such as that of a commercial pilot, nurse, police officer, or military personnel?

**5 (F) Diseases or Infections**

How often does this job require the worker to be exposed to diseases/infection? Diseases/Infections (e.g., patient care, some laboratory work, sanitation control, etc.)

**5 (F) Radiation**

How often does this job require the worker to be exposed to radiation?

**4 (D) High Places**

If injury, due to exposure to high places, were to occur while performing this job, how serious would be the likely outcome? High Places (e.g., heights above 8 feet on ladders, poles, scaffolding, catwalks, etc.)

**3 (L) High Places**

What is the likelihood that the worker would be injured as a result of being exposed to high places while performing this job? High Places (e.g., heights above 8 feet on ladders, poles, scaffolding, catwalks, etc.)

**INTERESTS:**

Interest elements are ranked by *occupational interest*.

**94 Realistic**

Realistic occupations frequently involve work activities that include practical, hands-on problems and solutions. They often deal with plants, animals, and real-world materials like wood, tools, and machinery. Many of the occupations require working outside, and do not involve a lot of paperwork or working closely with others.

**33 Conventional**

Conventional occupations frequently involve following set procedures and routines. These occupations can include working with data and details more than with ideas. Usually there is a clear line of authority to follow.

**17 Enterprising**

Enterprising occupations frequently involve starting up and carrying out projects. These occupations can involve leading people and making many decisions. Sometimes they require risk taking and often deal with business.

**17 Investigative**

Investigative occupations frequently involve working with ideas, and require an extensive amount of thinking. These occupations can involve searching for facts and figuring out problems mentally.

**11 Social**

Social occupations frequently involve working with, communicating with, and teaching people. These occupations often involve helping or providing service to others.

**11 Artistic**

Artistic occupations frequently involve working with forms, designs and patterns. They often require self-expression and the work can be done without following a clear set of rules.

**WORK VALUES:**

Work values elements are ranked by *extent*.

**61 Support-Mean Extent**

Occupations that satisfy this work value offer supportive management that stands behind employees. Corresponding needs are Company Policies, Supervision: Human Relations and Supervision: Technical.

**49 Relationships-Mean Extent**

Occupations that satisfy this work value allow employees to provide service to others and work with co-workers in a friendly non-competitive environment. Corresponding needs are Co-workers, Moral Values and Social Service.

#### 49 Working Conditions-Mean Extent

Occupations that satisfy this work value offer job security and good working conditions. Corresponding needs are Activity, Compensation, Independence, Security, Variety and Working Conditions.

#### 38 Achievement-Mean Extent

Occupations that satisfy this work value are results oriented and allow employees to use their strongest abilities, giving them a feeling of accomplishment. Corresponding needs are Ability Utilization and Achievement.

#### 28 Recognition-Mean Extent

Occupations that satisfy this work value offer advancement, potential for leadership, and are often considered prestigious. Corresponding needs are Advancement, Authority, Recognition and Social Status.

#### 25 Independence-Mean Extent

Occupations that satisfy this work value allow employees to work on their own and make decisions. Corresponding needs are Creativity, Responsibility and Autonomy.

#### 91 Moral Values

Workers on this job are never pressured to do things that go against their sense of right and wrong

#### 69 Company Policies and Practices

Workers on this job are treated fairly by the company

#### 66 Independence

Workers on this job do their work alone

#### 66 Activity

Workers on this job are busy all the time

#### 63 Supervision, Human Relations

Workers on this job have supervisors who back up their workers with management

#### 53 Supervision, Technical

Workers on this job have supervisors who train their workers well

#### 50 Security

Workers on this job have steady employment

#### 44 Co-workers

Workers on this job have co-workers who are easy to get along with

#### 44 Working Conditions

Workers on this job have good working conditions

#### 44 Compensation

Workers on this job are paid well in comparison with other workers

#### 41 Advancement

Workers on this job have opportunities for advancement

#### 38 Ability Utilization

Workers on this job make use of their individual abilities

#### 38 Achievement

Workers on this job get a feeling of accomplishment

#### 31 Social Status

Workers on this job are looked up to by others in their company and their community

#### 28 Responsibility

Workers on this job make decisions on their own

#### 28 Variety

Workers on this job have something different to do every day

#### 25 Recognition

Workers on this job receive recognition for the work they do

#### 25 Autonomy

Workers on this job plan their work with little supervision

**22 Creativity**

Workers on this job try out their own ideas

**16 Authority**

Workers on this job give directions and instructions to others

**13 Social Service**

Workers on this job have work where they do things for other people

**CROSSWALKS:**

[DOT91 \(Dictionary of Occupational Titles\):](#)

[556665014 Corrugator Operator](#)  
[556685090 Centrifugal-Casting-Machine Tender](#)  
[556685086 Blow-Molding-Machine Tender](#)  
[556685082 Vacuum Plastic-Forming-Machine Operator](#)  
[556685038 Injection-Molding-Machine Tender](#)  
[556665018 Molder, Pipe Covering](#)  
[556665010 Cake-Press Operator](#)  
[556385010 Centrifugal-Casting-Machine Tender](#)  
[690685090 Contact-Lens Molder](#)  
[556685022 Compression-Molding-Machine Tender](#)

AIM97 (Apprenticeship Information Management):

No crosswalks

CEN90 (1990 Census Occupations):

719 Molding and Casting Machine Operators

CIP90 (Classification of Instructional Programs):

150607 Plastics Tech./Technician

GOE93 (Guide for Occupational Exploration):

060419 Elemental Work: Industrial: Equipment Operation, Assorted Materials Pr  
 060413 Elemental Work: Industrial: Equipment Operation, Rubber, Plastics, and  
 060410 Elemental Work: Industrial: Equipment Operation, Metal Processing

MOC97 (Military Occupational Codes):

No crosswalks

OES98 (Occupational Employment Statistics):

91905 Plastic Molding and Casting Machine Operators and Tenders

OPM97 (Office of Personnel Management Occupations):

No crosswalks

SOC98 (Standard Occupational Classification):

51-4072 Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic



- [Dictionary of Occupational Titles \(DOT\) Index](#)
- [Standard Industrial Classifications \(SIC\) Index](#)
- [World Facts](#)
- [Quick Maps \(for your web site\)](#)
- [Flags of All Countries \(for your web site\)](#)
- [Digraphs - Internet Country Codes](#)
- [Airport Codes](#)
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